

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P284724

Luminaire Tested: **8SNLED-LD5-170HL-SLW-UNV-L940-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P284724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SNLED-LD5-170HL-SLW-UNV-L940-CD1-U
Description: 8FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11800.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.12')
CIE Type: Semi-Direct

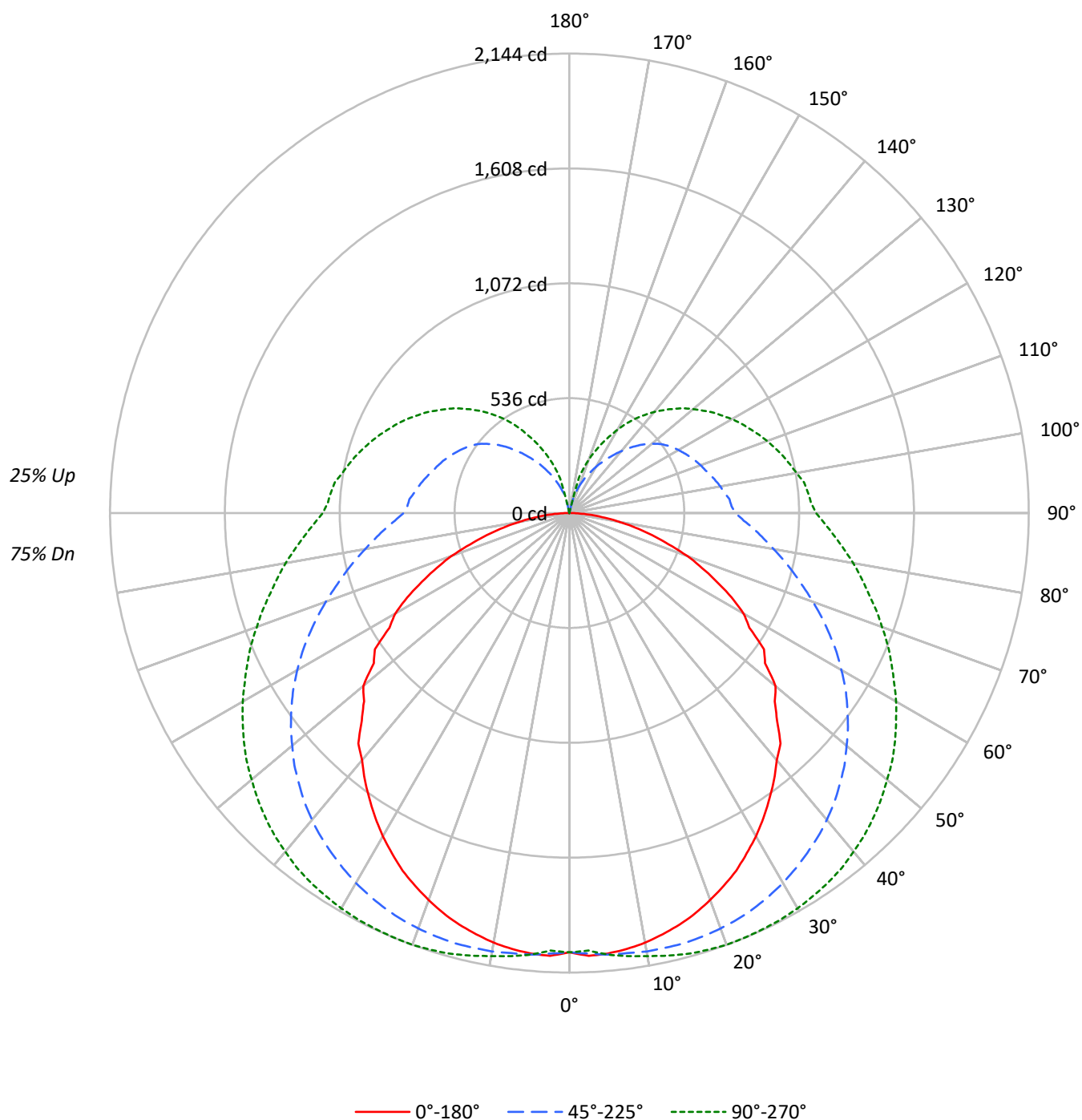
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75		
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60	56		
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48	44		
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39	36		
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33	30		
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28	25		
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24	22		
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21	19		
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19	17		
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17	15		
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8281	8281	8281
5°	8356	8190	8121
10°	8327	8126	8076
15°	8282	8089	8094
20°	8215	8059	8110
25°	8150	8037	8122
30°	8051	8020	8166
35°	7940	7999	8221
40°	7838	8002	8275
45°	7708	7992	8340
50°	7753	7985	8407
55°	7641	7996	8506
60°	7394	8014	8622
65°	7026	8039	8783
70°	6628	8118	9029
75°	5895	8330	9395
80°	5102	8766	9999
85°	4032	9639	10884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.0	1.7
10°-20°	583.7	4.9
20°-30°	927.8	7.9
30°-40°	1190.7	10.1
40°-50°	1344.6	11.4
50°-60°	1372.0	11.6
60°-70°	1271.1	10.8
70°-80°	1076.1	9.1
80°-90°	859.0	7.3
90°-100°	729.4	6.2
100°-110°	649.9	5.5
110°-120°	553.5	4.7
120°-130°	439.6	3.7
130°-140°	311.9	2.6
140°-150°	186.2	1.6
150°-160°	86.8	0.7
160°-170°	20.6	0.2
170°-180°	0.0	0.0
0°-30°	1708.4	14.5
0°-40°	2899.2	24.6
0°-60°	5615.8	47.6
0°-90°	8822.0	74.8
90°-120°	1932.8	16.4
90°-150°	2870.5	24.3
90°-180°	2978.0	25.2
0°-180°	11800.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2063	2046	2068	2068	2068	196
15°	1988	2004	2077	2115	2130	561
25°	1841	1902	2035	2107	2141	848
35°	1627	1747	1936	2055	2105	1019
45°	1370	1556	1785	1941	2008	1064
55°	1109	1295	1583	1777	1855	974
65°	760	1012	1339	1569	1658	754
75°	400	707	1084	1351	1445	425
85°	102	455	865	1145	1242	112
90°	5	372	774	1054	1151	8
95°	0	349	749	1023	1117	0
105°	0	322	682	940	1032	0
115°	0	299	621	846	929	0
125°	0	258	552	746	818	0
135°	0	192	444	629	688	1
145°	0	125	310	471	538	1
155°	3	78	192	288	358	1
165°	3	42	86	119	169	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.4	2049.4	2049.4	2049.4	2049.4
2.5°	2068.1	2046.4	2057.7	2054.7	2043.5
5°	2062.9	2046.4	2068.1	2068.1	2068.1
7.5°	2051.7	2040.5	2071.1	2082.4	2085.4
10°	2035.2	2035.2	2077.1	2093.6	2098.8
12.5°	2012.8	2021.0	2077.1	2101.8	2115.3
15°	1988.1	2004.5	2077.1	2115.3	2129.5
17.5°	1957.4	1985.1	2071.1	2118.3	2137.7
20°	1921.5	1963.4	2062.9	2118.3	2143.7
22.5°	1882.6	1935.7	2051.7	2113.0	2143.7
25°	1841.4	1902.0	2035.2	2107.1	2140.7
27.5°	1791.3	1869.1	2015.8	2098.8	2137.7
30°	1741.2	1830.2	1993.3	2087.6	2129.5
32.5°	1685.8	1788.3	1965.6	2071.1	2118.3
35°	1627.4	1747.1	1935.7	2054.7	2104.8
37.5°	1569.1	1697.0	1905.0	2032.2	2087.6
40°	1505.5	1646.9	1869.1	2004.5	2062.9
42.5°	1458.3	1594.5	1830.2	1976.9	2038.2
45°	1370.0	1555.6	1785.3	1940.9	2007.5
47.5°	1300.4	1480.8	1741.2	1905.0	1973.9
50°	1256.3	1419.4	1688.8	1863.1	1935.7
52.5°	1150.8	1378.3	1638.7	1822.0	1899.0
55°	1108.9	1295.2	1583.3	1777.1	1854.9
57.5°	995.2	1236.8	1527.9	1727.7	1807.8
60°	939.8	1156.0	1466.6	1677.6	1760.6
62.5°	853.7	1087.2	1405.9	1622.2	1708.2
65°	759.5	1012.4	1339.4	1569.1	1658.1
67.5°	671.2	937.5	1275.8	1513.7	1608.0
70°	585.1	859.7	1209.2	1458.3	1552.6
72.5°	484.9	781.9	1144.8	1405.9	1500.2
75°	399.6	707.1	1084.2	1350.6	1444.9
77.5°	315.8	635.3	1025.8	1300.4	1394.7
80°	238.7	565.7	967.5	1248.1	1344.6
82.5°	166.1	507.3	915.1	1197.9	1292.2
85°	102.5	454.9	865.0	1144.8	1242.1
87.5°	47.1	407.8	814.8	1095.4	1194.9
90°	5.2	371.9	773.7	1053.5	1150.8
92.5°	3.0	360.7	757.2	1034.1	1128.4
95°	0.0	349.4	749.0	1022.8	1117.1
97.5°	0.0	338.2	729.5	1006.4	1103.7
100°	0.0	333.0	715.3	981.7	1076.0
102.5°	0.0	324.7	698.9	959.2	1053.5
105°	0.0	321.7	682.4	939.8	1031.8
107.5°	0.0	315.8	665.2	915.1	1006.4
110°	0.0	310.5	651.7	892.7	981.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	305.3	637.5	871.0	956.3
115°	0.0	299.3	621.0	845.5	928.6
117.5°	0.0	291.1	604.6	820.8	903.9
120°	0.0	279.8	588.1	798.4	876.2
122.5°	0.0	268.6	570.9	770.7	845.5
125°	0.0	258.1	551.5	746.0	817.8
127.5°	0.0	240.9	529.8	718.3	784.9
130°	0.0	224.5	502.1	690.6	754.2
132.5°	3.0	208.0	474.4	660.0	723.6
135°	0.0	191.6	443.7	629.3	687.6
137.5°	0.0	177.3	410.0	596.3	651.7
140°	0.0	160.9	377.1	557.4	615.8
142.5°	0.0	141.4	344.2	515.5	576.9
145°	0.0	125.0	310.5	471.4	538.0
147.5°	3.0	110.7	279.8	424.3	496.1
150°	3.0	99.5	249.9	377.1	448.9
152.5°	3.0	89.0	219.2	333.0	401.8
155°	3.0	77.8	191.6	288.1	357.7
157.5°	3.0	66.6	160.9	243.9	310.5
160°	3.0	58.4	133.2	205.0	266.4
162.5°	3.0	50.1	108.5	160.9	219.2
165°	3.0	41.9	86.0	119.0	169.1
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)